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REF: CITE CIA/IAS 8225

THREE PROBABLE LIQUID HYDROGEN PLANTS, TWO OF WHICH ARE UNDER CONSTRUCTION, ARE NEWLY IDENTIFIED IN THE SOVIET UNION AT DNEPRODZERZHINSK, NAVOI, AND TOLYATTI. THE PLANT AT DNEPRODZERZHINSK IS LOCATED IMMEDIATELY EAST OF THE NITROGEN COMBINE [REDACTED] AT 48-29N 034-41E. THE PLANT AT NAVOI IS LOCATED IN THE NORTHEAST SECTION OF THE NAVOI CHEMICAL COMBINE [REDACTED] [REDACTED] AT 40-06N 065-20E. THE PLANT AT TOLYATTI IS LOCATED AT THE SOUTHEAST EDGE OF THE TOLYATTI NITROGEN FERTILIZER PLANT [REDACTED] AT 53-20N 049-27E.

THE BASIS FOR IDENTIFYING THE THREE PLANTS AS PROBABLE LIQUID HYDROGEN PLANTS IS THEIR SIMILARITY TO THE LIQUID HYDROGEN PLANT IDENTIFIED BY IAS IN MARCH 1970 AT THE CHIRCHIK ELECTROCHEMICAL COMBINE [REDACTED] THE PRODUCTION COMPONENTS OF THE PLANTS AT NAVOI AND TOLYATTI, THE PLANTS UNDER CONSTRUCTION, APPEAR NEARLY IDENTICAL IN CONFIGURATION AND LAYOUT TO THOSE AT CHIRCHIK. THE PRODUCTION COMPONENTS AT DNEPRODZERZHINSK, ALTHOUGH SIMILAR TO THOSE OF CHIRCHIK, ARE LARGER IN SIZE AND DIFFERENT IN LAYOUT.

THE PLANT AT DNEPRODZERZHINSK WAS IN A MID-STAGE OF CONSTRUCTION WHEN FIRST SEEN ON U-2 PHOTOGRAPHY OF FEBRUARY 1960. THE PRESENCE OF PROBABLE CRYOGENIC RAIL CARS AT THE LOADING RACK ON DECEMBER 1967 KH-4 PHOTOGRAPHY INDICATES THE PLANT WAS THEN PROBABLY CAPABLE OF PRODUCING AND SHIPPING LIQUID HYDROGEN.

CONSTRUCTION OF THE PROBABLE LIQUID HYDROGEN PLANT AT TOLYATTI BEGAN IN EARLY 1967. WHEN LAST SEEN ON PHOTOGRAPHY OF SEPTEMBER 1970, THE PLANT APPEARED ABOUT 30 PERCENT COMPLETE WITH CONSTRUCTION POSSIBLY SUSPENDED.

CONSTRUCTION OF THE PROBABLY LIQUID HYDROGEN PLANT AT NAVOI BEGAN EARLY IN 1968 AND WAS ABOUT 50 PERCENT COMPLETE WHEN LAST SEEN ON PHOTOGRAPHY OF AUGUST 1970. AT THAT TIME EIGHT LONG LIQUID HYDROGEN RAIL CARS WERE LOCATED ON A NEARBY RAIL SPUR SERVING AN UNIDENTIFIED PRODUCTION FACILITY WITHIN THE OLDER PART OF THE NAVOI CHEMICAL COMBINE. IT IS BELIEVED THE CARS ARE BEING HELD THERE TEMPORARILY FOR LATER MOVEMENT TO THE LIQUID HYDROGEN PLANT AREA.

SINCE CIA/IAS 8225, WHICH DESCRIBED THE CHIRCHIK PROBABLE LIQUID HYDROGEN PLANT IN DETAIL, IAS HAS CONFIRMED THE INTENDED LIQUID HYDROGEN PRODUCTION FUNCTION OF THE PLANT. THIS IS BASED ON SUBSEQUENT OBSERVATION OF LONG LIQUID HYDROGEN RAIL CARS INSIDE THE PLANT AREA AND AT THE PLANT'S LOADING RACK. IT IS ALSO BASED ON THE COMPLETION OF A PIPE RACK BETWEEN THE PLANT AND A HEAVY WATER PLANT LOCATED AT THE CHIRCHIK ELECTROCHEMICAL COMBINE.

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END OF MESSAGE